



Product Change Notification

PCN No: 2010-03-03-03

Report Date: March 3, 2010

**Subject: VK204-25 New PCB Rev 3.0 Release
VK204-25-USB New PCB Rev 3.0 Release**

List of New Products:

VK204-25 PCB Rev 3.0 (update of the VK204-25 PCB Rev 2.0)
VK204-25-USB PCB Rev 3.0 (update of the VK204-25-USB PCB Rev 1.0B1)
VK204-25-422

Reason for Change:

The VK204-25 Matrix Orbital graphic module series have been updated to be able to unify display modules and offer new features and benefits. The VK204-25 PCB Rev 2.0 and the VK204-25-USB PCB Rev 1.0B1 have been integrated into single PCB to reduce inventory turn over.

Product Change:

The following hardware and firmware changes are all effective on all the variants of the VK204-25 as stated under 'List of New Products'. The old VK204-25 PCB Rev 2.0 and VK204-25-USB PCB Rev 1.0B1 are now superseded by single PCB Rev 3.0, and the old firmware version v5.6 is now superseded by v7.0. The changes are stated to compare the old and the new PCB revisions.

Schedule of Change:

September 1, 2010

Hardware Changes:

- 1) The 'Protocol Select Jumpers' have been expanded to include provisions for the -USB and -422 models of the VK204-25 PCB Rev 3.0
- 2) An optional serial header (the connector is populated only upon request) is added on PCB Rev 3.0
- 3) A single Dallas 1-Wire connection is now offered as an option on PCB Rev 3.0
- 4) Better ESD protection is offered on PCB Rev 3.0 through optional ground jumps

Firmware Changes:

Release v7.0 (released February 15, 2010):

- 1) For I2C implementation only - the VK204-25 now temporarily disconnects itself from the I2C bus when it is busy processing data or when the display's buffer is full
- 2) Added Dallas 1-wire support
- 3) List of New (or Changed) Commands:

Dallas 1-Wire Related Commands:

- 200 / 1: Search for Devices - new command, as described in item # 4
- 200 / 2: 1-Wire Transaction - new command, as described in item # 4

Please refer to

http://www.matrixorbital.ca/manuals/VK_series/VK204-25/
for the VK204-25 PCB 3.0 manual.

Documentation Revision

Revision	Changes	Date	Author
1.0	Initial Release	April 28/10	R Malinis

Contact Information:

Julian Gelfand (Sales Manager): jgelfand@matrixorbital.ca

Reference Documents/Attachments:

Location: <http://www.matrixorbital.ca/manuals/>

Approvals:

Engineering: **James McTavish (Engineering Coordinator)**

Sales: **Julian Gelfand (Sales Manager)**

Production: **Mike McTavish (Production Manager)**